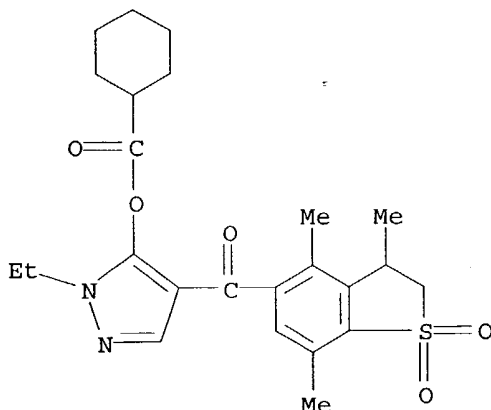


(CA INDEX NAME)



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L1 STRUCTURE UPLOADED  
 L2 21 S L1  
 L3 408 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 11:36:09 ON 24 AUG 2004

L4 13 S L3  
 L5 13 S L4 AND HERBICIDE

=&gt; s l5 and py&lt;=1998

18920314 PY&lt;=1998

L6 2 L5 AND PY&lt;=1998

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L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:265583 CAPLUS

DOCUMENT NUMBER: 126:251160

TITLE: Preparation of benzothiophene/benzothiazine/isoquinoline derivatives as **herbicides**

INVENTOR(S): Gee, Stephen Kenneth; Hanagan, Mary Ann; Hong, Wonpyo; Kucharczyk, Roman

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours &amp; Co., USA; Gee, Stephen Kenneth; Hanagan, Mary Ann; Hong, Wonpyo; Kucharczyk, Roman

SOURCE: PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

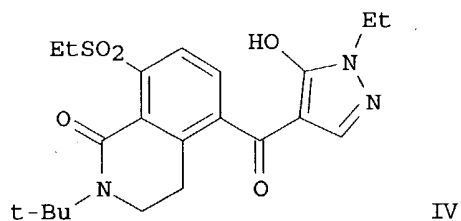
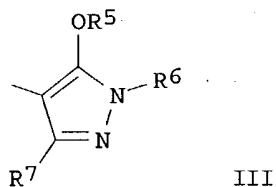
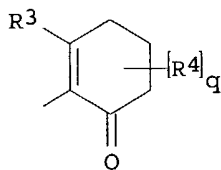
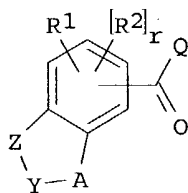
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE  |
|------------|------|------|-----------------|-------|
| -----      | ---- | ---- | -----           | ----- |

08/24/2004

WO 9708164 A1 19970306 WO 1996-US13347 19960815 <--  
 W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS,  
 JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ,  
 PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, AM, AZ,  
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 AU 9667778 A1 19970319 AU 1996-67778 19960815 <--  
 EP 846112 A1 19980610 EP 1996-928223 19960815 <--  
 R: DE, FR  
 PRIORITY APPLN. INFO.: US 1995-2803P P 19950825  
 WO 1996-US13347 W 19960815  
 OTHER SOURCE(S): MARPAT 126:251160  
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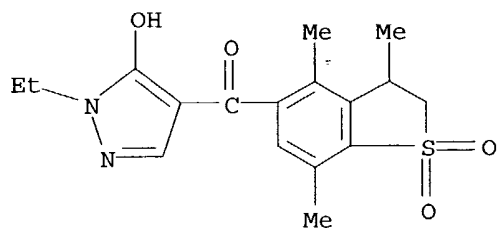
AB The title compds. [I; Q = II, III (wherein R3 = C1-6 alkylthio, C1-6 alkylsulfonyl, etc.; R4 = C1-3 alkyl, C1-3 alkoxy, halo, etc.; R5 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R6 = H, C1-6 alkyl, C3-6 alkenyl, etc.; R7 = H, C1-6 alkyl, C1-6 alkoxy, etc.; q = 0-4); A = (CH2)m (wherein m = 1-3), CH:CH, CH2CH:CH, etc.; Y = O, (un)substituted CH2, NH, etc.; Z = C(O), C(S), O, SO2; R1 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R2 = C1-6 alkyl, halo, CN, etc.; r = 0-2], useful for controlling undesired vegetation, were prepared. Thus, 10-step synthesis of the title compound IV, which showed complete control against speedwell at 16 g/ha in preemergence tests, was described.

IT 182425-80-5P 188613-20-9P 188613-22-1P  
 188613-26-5P 188613-29-8P 188613-31-2P  
 188613-33-4P 188613-35-6P 188613-39-0P  
 188613-41-4P 188613-43-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of benzothiazine/benzothiazine/isoquinoline derivs. as herbicides)

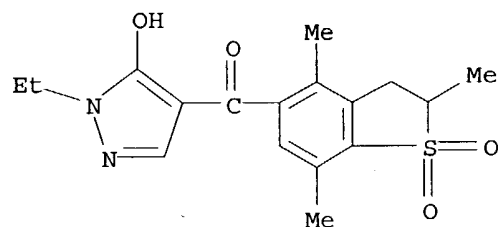
RN 182425-80-5 CAPLUS

CN Methanone, (2,3-dihydro-3,4,7-trimethyl-1,1-dioxidobenzo[b]thien-5-yl) (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



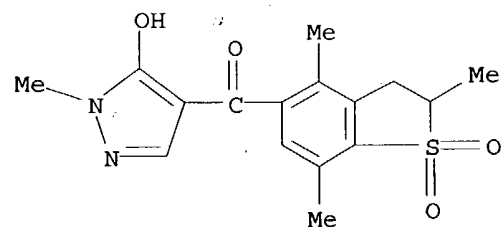
RN 188613-20-9 CAPLUS

CN Methanone, (2,3-dihydro-2,4,7-trimethyl-1,1-dioxidobenzo[b]thien-5-yl) (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



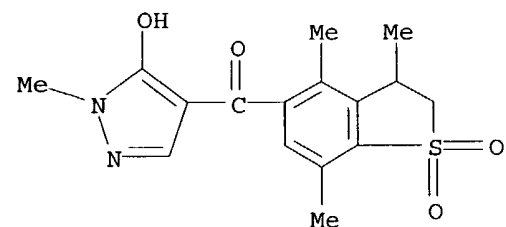
RN 188613-22-1 CAPLUS

CN Methanone, (2,3-dihydro-2,4,7-trimethyl-1,1-dioxidobenzo[b]thien-5-yl) (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 188613-26-5 CAPLUS

CN Methanone, (2,3-dihydro-3,4,7-trimethyl-1,1-dioxidobenzo[b]thien-5-yl) (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 188613-29-8 CAPLUS